



## **Hybrid magnetically supported carriage transporter**

**Description of Technology:** The present invention pertains to an apparatus for transporting a carriage along a track, substantially free of mechanical friction or magnetic drag, utilizing a hybrid support arrangement. The carriage is magnetically supported in a first direction, and the position of the carriage is stabilized in a second direction by passive means.

### **Patent Listing:**

1. **US Patent No. 6,601,519**, Issued August 5, 2003, "Hybrid magnetically supported carriage transporter"

<http://patft.uspto.gov/netacgi/nph-Parser?Sect2=PTO1&Sect2=HITOFF&p=1&u=%2Fnethtml%2FPTO%2Fsearch-bool.html&r=1&f=G&l=50&d=PALL&RefSrch=yes&Query=PN%2F6601519>

**Market Potential:** Transporting carriages along a track, substantially free of mechanical friction, has long been a goal. Numerous systems to transport passengers and cargo at high speeds or to convey manufactured articles or machine components in manufacturing systems have been devised. Prior art systems may be grouped as either "contacting systems", i.e., wherein the carriage is in mechanical contact with the track, or "non-contacting systems", i.e., wherein there is no mechanical contact between the carriage and the track. Each group of systems typically suffers from certain disadvantages.

### **Benefits:**

- Free of mechanical friction or magnetic drag

### **Applications:**

- Apparatus for transporting a carriage along a track

### **Contact: Ken Anderson**

*Director, Entrepreneurial & Small Business Support, Delaware Economic Development Office (DEDO)*

*Carvel State Building, 820 French Street, Wilmington, DE, 19801*

*Phone: (302) 577-8496, Fax: (302) 577-8499, Email: [Kenneth.R.Anderson@state.de.us](mailto:Kenneth.R.Anderson@state.de.us)*